

### Customer Information

ABALONE CONSTRUCTION SERVICES INC

Attention : James Dumas  
Phone :

### Equipment Information

Unit # : HE225008  
Component : ENGINE  
Location :  
Unit Mfr/Model : HITACHI / ZX225USLC-3  
Unit Serial # : HCM1U400L00221206  
Comp Mfr/Model : HITACHI / ZX225USLC-3  
Comp Serial # : HCM1U400L00221206

### Lubricant

Manufacturer : MOBIL  
Brand : DELVAC 1 ESP  
Grade : 5W40  
Sample # : 2025/11/19-167  
Lab Tracking # : 61TN - 91507

N16-1  
BALLE-MAR

# FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

### Oil Analysis

4371 Savaryn Drive SW, Edmonton  
Alberta, Canada T6X 2E8  
Phone: 877 962 2400

Sample Number	Sample Date	Wear Metals ppm														Additives ppm								
		Aluminum	Iron	Copper	Lead	Tin	Chromium	Nickel	Titanium	Silver	Vanadium	Antimony	Beryllium	Manganese	Cadmium	Calcium	Zinc	Phosphorus	Magnesium	Molybdenum	Boron	Barium	Lithium	
Ref. Sample	2018/05/17	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1060	1210	1180	1010	50	129	0	0
11/19-167	2025/11/17	2	5	1	2	2	0	0	0	0	0	2	0	0	0	1112	1251	1212	1053	51	130	0	0	
09/26-487	2025/09/23	2	6	0	0	0	0	0	0	0	0	0	0	0	1129	1193	1142	908	51	108	2	0		
08/12-1241	2025/08/08	3	6	0	0	0	0	0	0	0	0	0	0	0	1073	1397	1115	993	51	116	8	0		
06/17-1487	2025/06/06	3	5	0	2	0	0	1	0	0	0	0	0	0	1088	1212	1105	944	52	126	0	0		
11/01-1393	2024/10/29	3	6	0	0	0	0	0	0	0	0	0	0	0	1092	1188	1079	879	50	106	0	0		

Sample Information								Contaminants ppm			Physical Tests							Additional Tests	
Sample Date	Oil Mfr.	Oil Brand	Oil Grade	Component Service	Oil Service	Units	Oil Chg	Sodium	Potassium	Silicon	Visc 40°C cSt	Visc 100°C cSt	Visc Index	Water	Glycol %	Fuel %	Soot %	NIT (DT) (Abs/0.1mm)	OX (DT) (Abs/0.1mm)
Ref. Sample	MOB	DEL ESP	5W40					0	1	5	82.8	13.37	164				0.05	6.93	50.2
2025/11/17	MOB	DEL ESP	5W40	-11345	-203	HR	Y	0	0	3		12.92		N	NT	NT	0.29	9.19	57.0
2025/09/23	MOB	DEL ESP	5W40	11142	276	HR	Y	0	2	3		13.36		N	NT	NT	0.38	9.66	57.0
2025/08/08	MOB	DEL ESP	5W40	-10866	100	HR	Y	0	0	4		12.88		N	NT	NT	0.30	9.18	53.3
2025/06/06	MOB	DEL ESP	5W40	10601	271		Y	1	1	4		12.76		N	NT	NT	0.28	8.98	56.0
2024/10/29	MOB	DEL ESP	5W40	-10330			Y	0	0	4		13.62		N	NT	NT	0.34	9.29	50.9

### Results

**2025/11/17** Tested wear and contamination levels are within acceptable limits.  
**2025/09/23** Tested wear and contamination levels are within acceptable limits.  
**2025/08/08** Tested wear and contamination levels are within acceptable limits.  
**2024/10/29** Assuming normal oil service life, tested wear and contamination are within acceptable limits.

### Recommendations

**2025/11/17** Resample next interval to monitor.  
**2025/09/23** Resample next interval to monitor.  
**2025/08/08** Resample next interval to monitor.  
**2025/06/06** Resample next interval to monitor.  
**2024/10/29** Resample next interval to monitor.

**Key:** Y - Yes N - Negative P - Positive R - Reportable U - Unacceptable S - Severe I - Insufficient Sample - Data could not be provided NT - Not Triggered - Updated ~ - Lab Estimated

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# FLUID LIFE

EQUIPMENT RELIABILITY SERVICES

### Trend Analysis

4371 Savaryn Drive SW, Edmonton  
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### Additional Tests

Sul (DT)  
(Abs/0.1mm)

42.1

49.2

49.2

47.7

48.8

43.0

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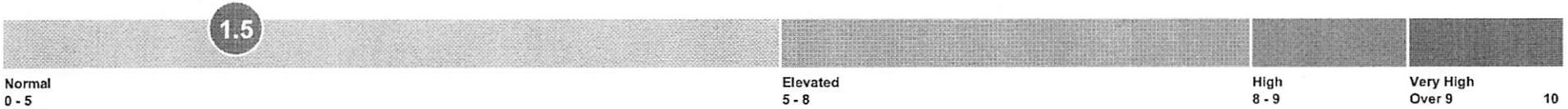
**Lubricant**

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**Trend Analysis**

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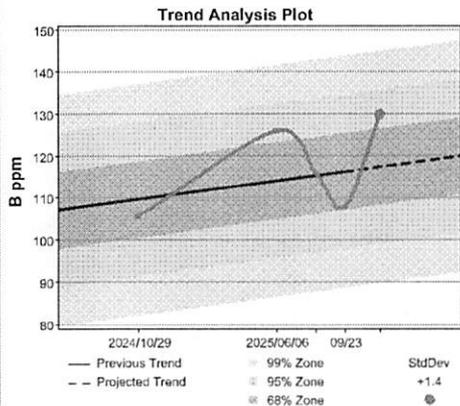
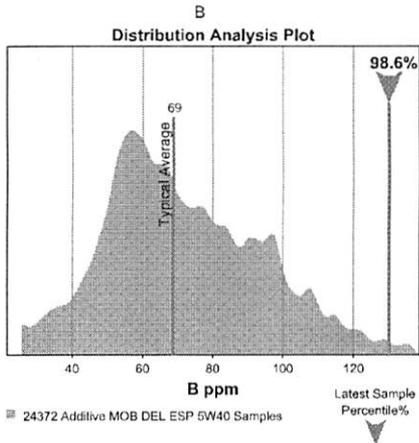
**Your Sample Rank**



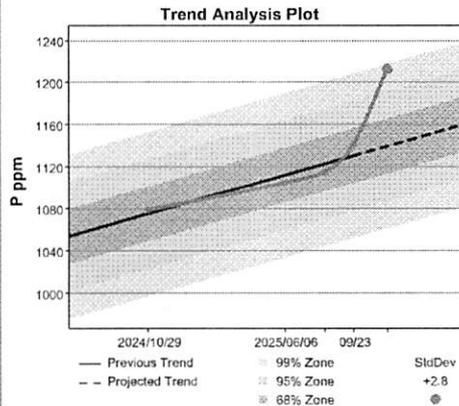
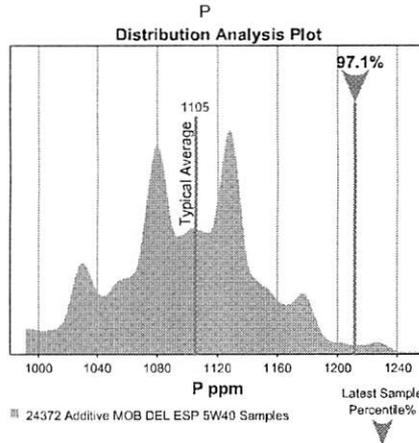
Sample rank ranges from zero to ten. The higher the sample rank, the more abnormal the sample results are.

**Top Trends Analysis**

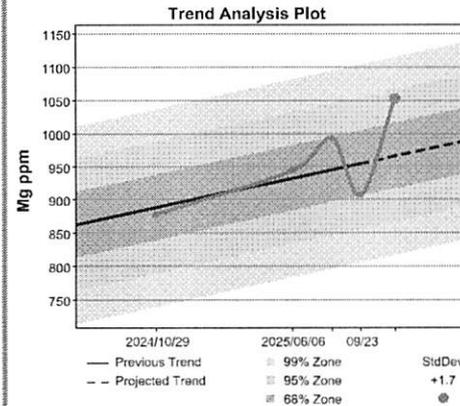
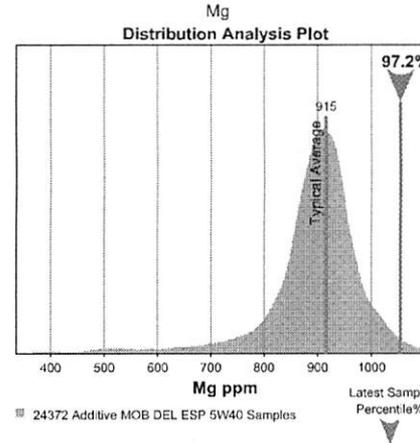
**B Test Rank 5.1**



**P Test Rank 5.1**



**Mg Test Rank 4.9**



**Mo Test Rank 3.5**

