



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
CRANE #7 MAIN

Component
Main Gearbox

Fluid
MOBIL MOBILUBE HD 85W140 (--- GAL)



DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ATF range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0887215	WC0765208	---
Sample Date	Client Info		09 Dec 2023	18 Dec 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		34	32	---
Iron	ppm	ASTM D5185(m) >200	▲ 281	▲ 265	---
Chromium	ppm	ASTM D5185(m) >15	1	1	---
Nickel	ppm	ASTM D5185(m) >15	<1	<1	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m) >25	6	6	---
Lead	ppm	ASTM D5185(m) >100	2	2	---
Copper	ppm	ASTM D5185(m) >200	45	44	---
Tin	ppm	ASTM D5185(m) >25	3	3	---
Antimony	ppm	ASTM D5185(m) >5	0	<1	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

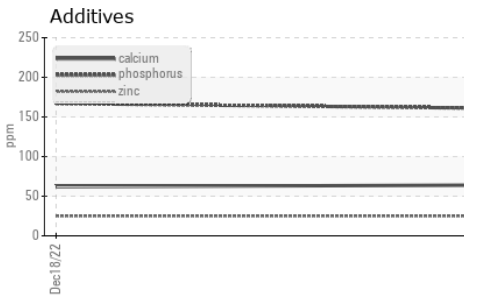
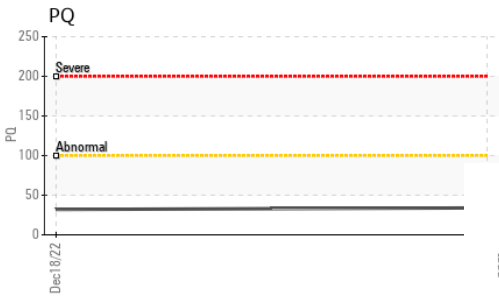
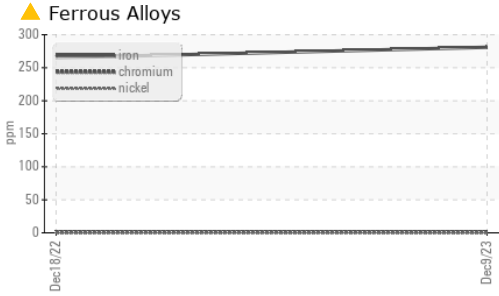
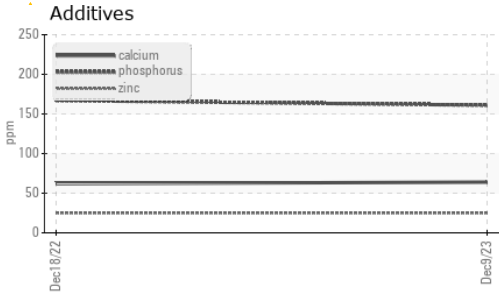
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	52	55	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	<1	1	---
Manganese	ppm	ASTM D5185(m)	4	4	---
Magnesium	ppm	ASTM D5185(m)	2	2	---
Calcium	ppm	ASTM D5185(m)	64	62	---
Phosphorus	ppm	ASTM D5185(m)	161	167	---
Zinc	ppm	ASTM D5185(m)	25	25	---
Sulfur	ppm	ASTM D5185(m)	983	734	---
Lithium	ppm	ASTM D5185(m)	1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	3	3	---
Sodium	ppm	ASTM D5185(m)	3	3	---
Potassium	ppm	ASTM D5185(m) >20	4	3	---



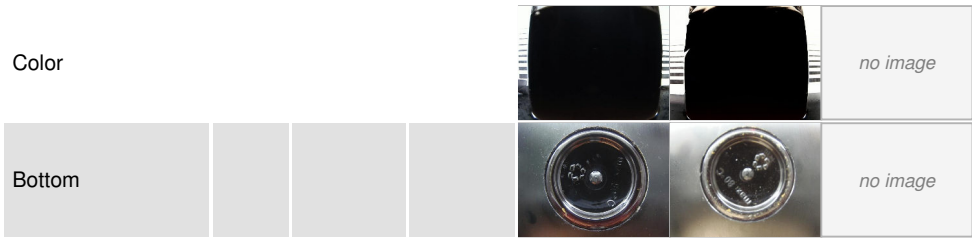
OIL ANALYSIS REPORT



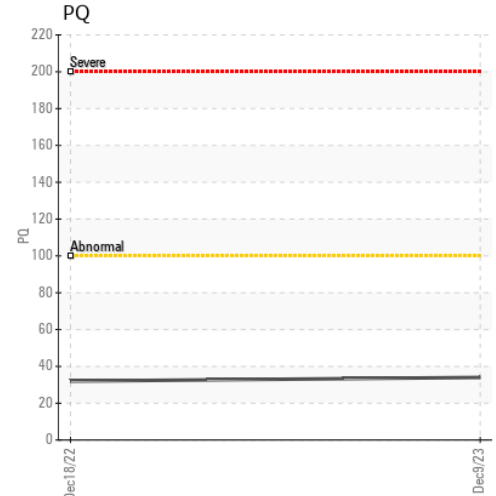
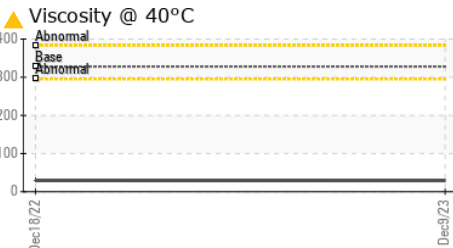
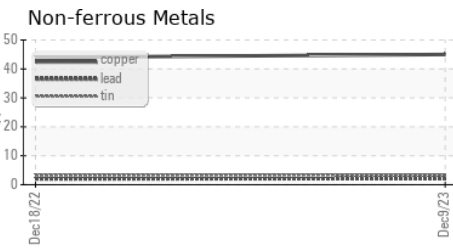
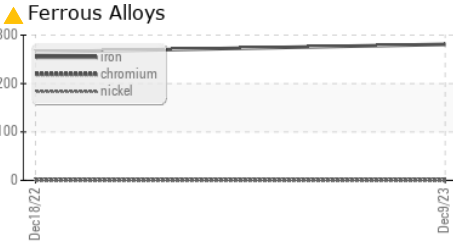
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	328 ▲ 29.5	▲ 29.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0887215 **Received** : 22 Dec 2023
Lab Number : 02605125 **Diagnosed** : 27 Dec 2023
Unique Number : 5698210 **Diagnostician** : Kevin Marson
Test Package : IND 1 (Additional Tests: PQ)

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 1430 Martin Grove Rd
 Rexdale, ON
 CA M9W 4Y1
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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.