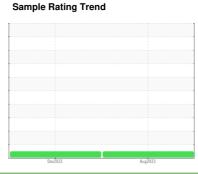


# **OIL ANALYSIS REPORT**

# Subsea Crane Subsea Crane- Hydraulic (S/N SP2034-1)

**Hydraulic System** 

MOBIL DTE 10 EXCEL 46 (6200 LTR)





## DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as MOBIL DTE 10 EXCEL 46, however, a fluid match indicates that this fluid is ISO 46 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using Advanced Oil Monitoring (AOM) kits for this system. The AOM test package includes advanced level testing to determine the suitability of turbine and large industrial compressor oils for continued use.

Component wear rates appear to be normal (unconfirmed).

## Contamination

There is no indication of any contamination in the oil.

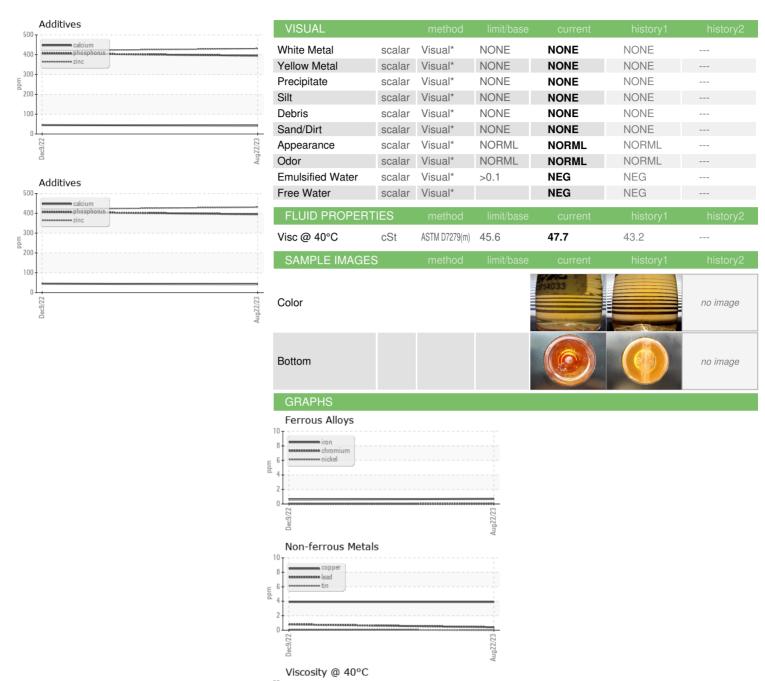
### **Fluid Condition**

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service (unconfirmed).

			Dec2022	Aug2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0754033	WC0754048	
Sample Date		Client Info		22 Aug 2023	09 Dec 2022	
Machine Age	hrs	Client Info		0	16000	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	<1	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)	>10	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>10	0	<1	
Lead	ppm	ASTM D5185(m)	>10	<1	<1	
Copper	ppm	ASTM D5185(m)	>75	4	4	
Tin	ppm	ASTM D5185(m)	>10	0	<1	
Antimony	ppm	ASTM D5185(m)		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)		<1	<1	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		<1	<1	
Calcium	ppm	ASTM D5185(m)		42	45	
Phosphorus	ppm	ASTM D5185(m)		395	407	
Zinc	ppm	ASTM D5185(m)		431	420	
Sulfur	ppm	ASTM D5185(m)		2237	2346	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	1	1	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: WC0754033

: 5633749

35

: 02580689

Recieved Diagnosed Diagnostician

: 06 Sep 2023 : 06 Sep 2023 : Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Horizon Maritime Services Ltd. - Horizon Enabler 87 Water Street, 2nd Floor

St. John's, NL CA A1C 1A5 Contact: Andrew Whalen

Test Package : MAR 1 To discuss this sample report, contact Customer Service at 1-800-268-2131.

chiefeng.enabler@horizonmaritime.com

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.

T: F:

Contact/Location: Andrew Whalen - HORIZONENA