

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

2227-2235 WINCH BRAKE COOLING OIL

Component

Winch

MOBIL DTE EXCEL ISO 32 (100 mL)

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

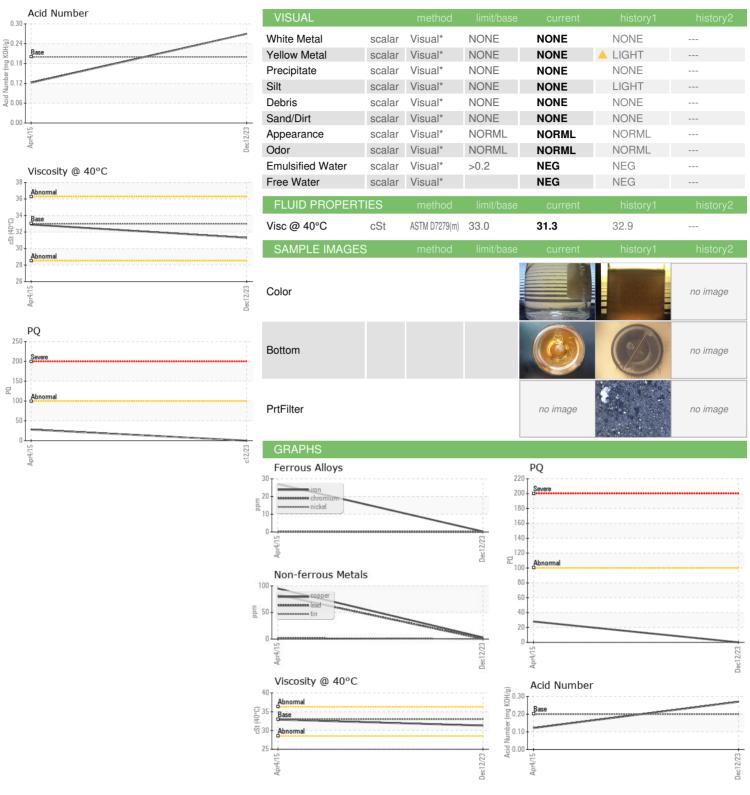
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Apr2015	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0711969	WC	
Sample Date		Client Info		12 Dec 2023	04 Apr 2015	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	28	
Iron	ppm	ASTM D5185(m)	>30	<1	27	
Chromium	ppm	ASTM D5185(m)	>2	0	<1	
Nickel	ppm	ASTM D5185(m)		<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	
Lead	ppm	ASTM D5185(m)		<1	▲ 83	
Copper	ppm	ASTM D5185(m)	>65	3	▲ 95	
Tin	ppm	ASTM D5185(m)	>9	0	2	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
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)		2	<1	
Barium	ppm	ASTM D5185(m)		<1	8	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		0	2	
Magnesium	ppm	ASTM D5185(m)		14	<1	
Calcium	ppm	ASTM D5185(m)		96	113	
Phosphorus	ppm	ASTM D5185(m)		214	457	
Zinc	ppm	ASTM D5185(m)		121	80	
Sulfur	ppm	ASTM D5185(m)		1141	1462	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)	>30	<1	▲ 123	
Sodium	ppm	ASTM D5185(m)	700	<1	2	
Potassium	ppm ppm	ASTM D5185(m)	>20	0	4	
		. ,				
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	.2	0.27	0.122	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Canadian Coast Guard - CCGS Constable Carriere : WC0711969

: 02603806 : 5696891

Recieved Diagnosed

: 18 Dec 2023 Diagnostician Test Package : MAR 2 (Additional Tests: TAN Man)

: 18 Dec 2023 : Wes Davis

867 Lakeshore Road Burlington, ON CA L7R 4A6 Contact: Chief Engineer

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

constablecarriereCE@ccgs-ngcc.gc.ca T: (705)542-2737

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.

F: x: