

OIL ANALYSIS REPORT

Sample Rating Trend



EHG3 UPSTREAM

Component Bearing Fluid MOBIL DTE EXCEL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Contaminants

There is no indication of any contamination in the oil.

Oil Condition

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

			May2023	0ct2023		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0815813	WC0736163	
Sample Date		Client Info		19 Oct 2023	18 May 2023	
Machine Age	mths	Client Info		31	26	
Oil Age	mths	Client Info		5	26	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>20	<1	2	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	
Lead	ppm	ASTM D5185(m)	>20	3	16	
Copper	ppm	ASTM D5185(m)	>20	<1	<1	
Tin	ppm	ASTM D5185(m)	>20	<1	5	
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)		<1	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		0	0	
Calcium	ppm	ASTM D5185(m)		3	<1	
Phosphorus	ppm	ASTM D5185(m)		129	142	
Zinc	ppm	ASTM D5185(m)		67	59	
Sulfur	ppm	ASTM D5185(m)		1319	528	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
CONTAMINANTS Silicon	ppm		limit/base >15		history1 2	history2
		method		current		
Silicon	ppm	method ASTM D5185(m)		current 1	2	
Silicon Sodium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m)	>15	current 1 2	2 <1	

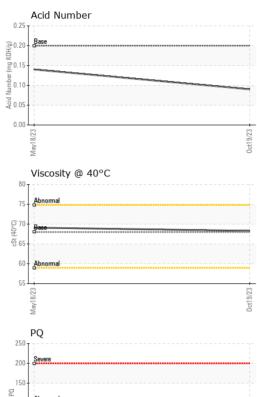


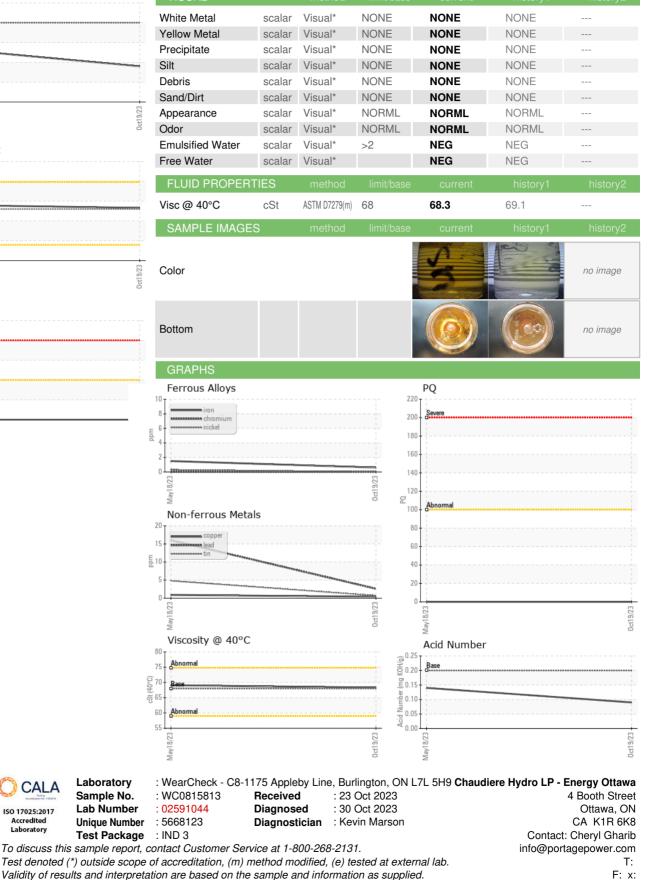
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OIL ANALYSIS REPORT





Report Id: ENE271OTT [WCAMIS] 02591044 (Generated: 10/30/2023 08:35:15) Rev: 1

CALA

ISO 17025:2017 Accredited

Laboratory

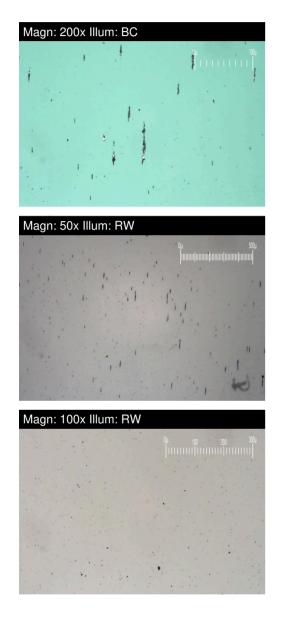
Contact/Location: Cheryl Gharib - ENE271OTT



FERROGRAPHY REPORT

EHG3 UPSTREAM

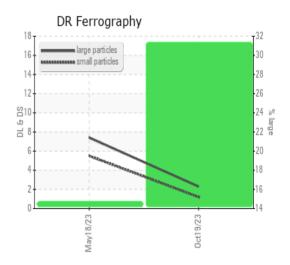
Component Bearing Fluid MOBIL DTE EXCEL ISO 68 (--- GAL)



DR-FERROGRAP	ΉY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		2.3	7.4	
Small Particles		DR-Ferr*		1.2	5.5	
Total Particles		DR-Ferr*	>	3.5	12.9	
Large Particles Percentage	%	DR-Ferr*		31.4	14.7	
Severity Index		DR-Ferr*		3	14	
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		2	2	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1	1	
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*		1	1	
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1	1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	

WEAF

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



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