

OIL ANALYSIS REPORT

Sample Rating Trend



VILTER VILTER

Component

Screw Compressor

TULCO LUBSOIL LPG WI 100 (150 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

			Interes			
SAMPLE INFORM	MATION	method	limit/base	Current	history1	history2
Sample Number		Client Info		TO60000932	TO60000938	TO60000936
Sample Date		Client Info		10 Jan 2024	11 Dec 2023	03 Aug 2023
Machine Age	wks	Client Info		0	0	0
Oil Age	wks	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	1	4	4
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	10	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	0	•		
		710 1111 20 100111	-	0	<1	2
Calcium	ppm	ASTM D5185m		0	<1 <1	2
			0			_
Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		0	<1	0
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	0	0 2	<1 5	0
Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	0 2 0 793	<1 5 0	0 3 0
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0	0 2 0 793	<1 5 0 1351	0 3 0 2111
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 0 0 limit/base	0 2 0 793	<1 5 0 1351 history1	0 3 0 2111 history2
Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 0 0 limit/base	0 2 0 793 current	<1 5 0 1351 history1	0 3 0 2111 history2 43
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 0 0 limit/base >50	0 2 0 793 current 20	<1 5 0 1351 history1 31 0	0 3 0 2111 history2 43
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	0 0 0 limit/base >50	0 2 0 793 current 20 0 <1	<1 5 0 1351 history1 31 0	0 3 0 2111 history2 43 0 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	0 0 0 limit/base >50 >20 >2.26	0 2 0 793 current 20 0 <1 0.185 1859	<1 5 0 1351 history1 31 0 1 0.262	0 3 0 2111 history2 43 0 2 1.127
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	0 0 0 limit/base >50 >20 >2.26 >22600	0 2 0 793 current 20 0 <1 0.185 1859	<1 5 0 1351 history1 31 0 1 0.262 2626	0 3 0 2111 history2 43 0 2 1.127 11274.1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	0 0 0 limit/base >50 >20 >2.26 >22600 limit/base >10000	0 2 0 793 current 20 0 <1 0.185 1859 current	<1 5 0 1351 history1 31 0 1 0.262 2626 history1	0 3 0 2111 history2 43 0 2 1.127 11274.1 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	0 0 0 limit/base >50 >20 >2.26 >22600 limit/base >10000	0 2 0 793 current 20 0 <1 0.185 1859 current ▲ 23050	<1 5 0 1351 history1 31 0 1 0.262 2626 history1 22868	0 3 0 2111 history2 43 0 2 1.127 11274.1 history2 ▲ 144340
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647	0 0 0 limit/base >50 >20 >2.26 >22600 limit/base >10000 >2500	0 2 0 793 current 20 0 <1 0.185 1859 current △ 23050 △ 3924	<1 5 0 1351 history1 31 0 1 0.262 2626 history1 22868 4359	0 3 0 2111 history2 43 0 2 1.127 11274.1 history2 144340 50615

ASTM D7647 >4

ISO 4406 (c)

method

mg KOH/g ASTM D8045

0

0.39

22/19/15

current

>20/18/15

limit/base

Particles >71µm

Oil Cleanliness

Acid Number (AN)

FLUID DEGRADATION

0

22/19/14

0.86

history1

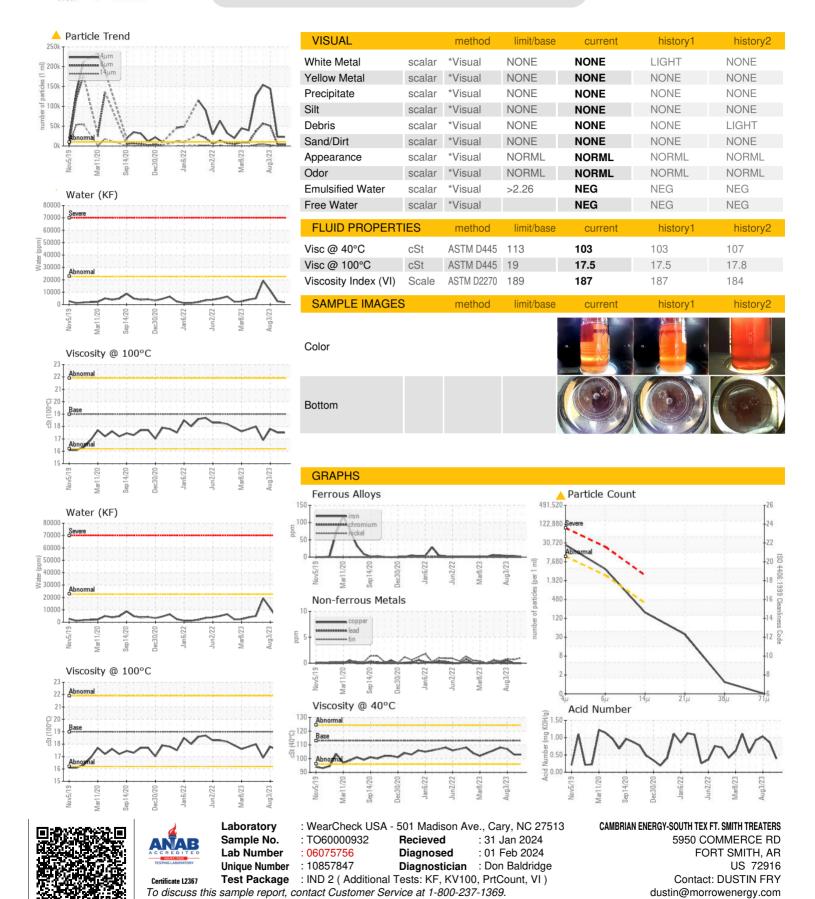
24/23/18

1.03

history2



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

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