

PROBLEM SUMMARY

Sample Rating Trend

DIRT

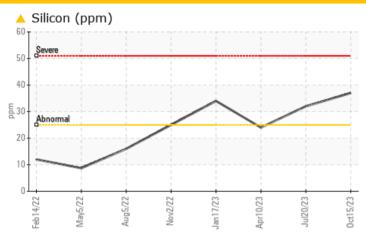
Machine Id **8176150 (S/N 1032)**

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Silicon	ppm	ASTM D5185m	>25	<u> </u>	▲ 32	24

Customer Id: ALUPIE Sample No.: KC05979643 Lab Number: 05979643 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

20 Jul 2023 Diag: Don Baldridge

DIRT



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



10 Apr 2023 Diag: Jonathan Hester

150



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



17 Jan 2023 Diag: Don Baldridge

DIKT

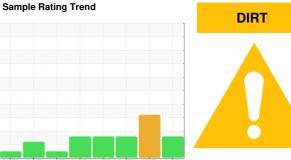


Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



8176150 (S/N 1032)

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

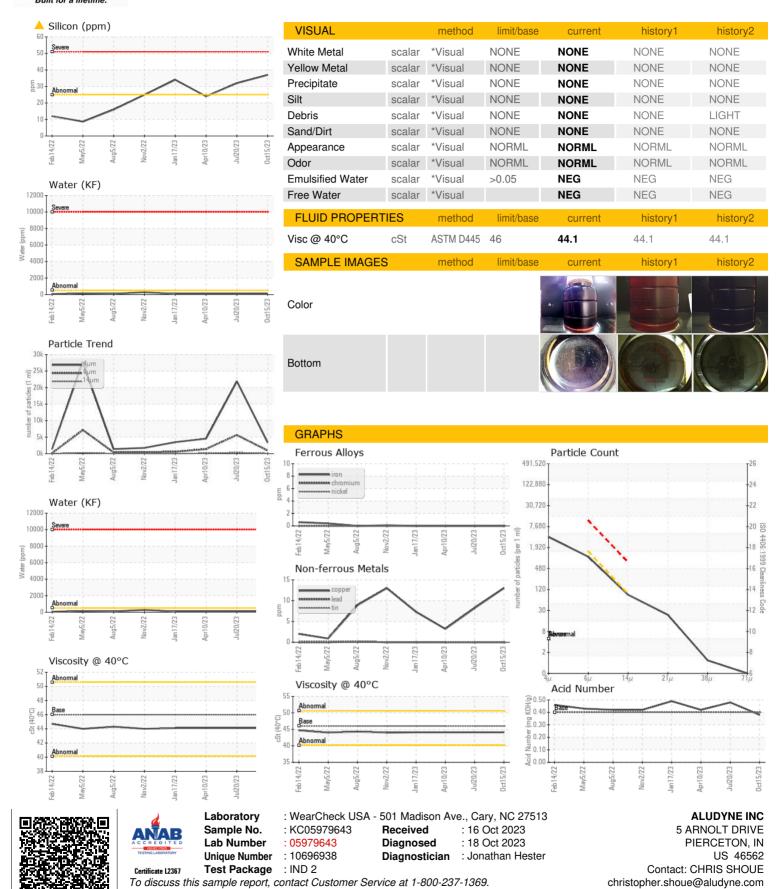
Fluid Condition

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

Sample Number Sample Date Client Info KC05979643 KC05905530 KC102834 Sample Date Client Info 15 Oct 2023 20 Jul 2023 10 Apr 202 Machine Age hrs Client Info 0 0 0 1983 Oil Changed Client Info N/A N/A N/A Not Change WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 0 0 Chromium ppm ASTM D5185m >50 0 0 0 0 Nickel ppm ASTM D5185m >10 0 0 0 0 Niker ppm ASTM D5185m >3 0 0 0 0 Chromium ppm ASTM D5185m >3 0 0 0 0 Iron ppm ASTM D5185m >10 4 1 0 4 Iron ppm<			Feb 2022 N	May2022 Aug2022 Nov20	22 Jan 2023 Apr 2023 Jul 2023	0ct2023	
Sample Date Client Info 15 Oct 2023 20 Jul 2023 10 Apr 202	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 17515 15543 13205	Sample Number		Client Info		KC05979643	KC05905530	KC102634
Oil Age hrs Client Info N/A N/A N/A Not Change Sample Status method limit/base current history1 history1 history1 WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >50 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 <1 0 <1 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0	Sample Date		Client Info		15 Oct 2023	20 Jul 2023	10 Apr 2023
Oil Changed Sample Status	Machine Age	hrs	Client Info		17515	15543	13205
MEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >10 <1	Oil Age	hrs	Client Info		0	0	1983
WEAR METALS method limit/base current history1 history Iron ppm ASTM D5185m >50 0 0 0 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 <1	Oil Changed		Client Info		N/A	N/A	Not Changd
Irron	Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Tittanium ppm ASTM D5185m >2 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Iron	ppm	ASTM D5185m	>50	0	0	0
Titanium	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>3	0	0	0
Aluminum ppm ASTM D5185m >10 <1 0 <1 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 13 8 3 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 90 0 <1	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 13 8 3 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 2 0 0 0 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>2</td> <td>0</td> <td><1</td> <td>0</td>	Silver	ppm	ASTM D5185m	>2	0	<1	0
Copper ppm ASTM D5185m >50 13 8 3 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1	Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Tin	Lead	ppm	ASTM D5185m	>10	0	0	0
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Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 90 0 <1 0 Manganese ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 90 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 A 37 A 32 24	Tin		ASTM D5185m	>10	0	0	0
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history1 Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 90 0 <1	Vanadium		ASTM D5185m		0	0	0
Boron ppm ASTM D5185m 0 0 0 Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 90 0 0 0 15 Calcium ppm ASTM D5185m 90 0 0 0 0 Phosphorus ppm ASTM D5185m 2 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 1 CONTAMINANTS method limit/base current history1 history1 history Silicon ppm ASTM D5185m >25 37 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Value ppm							0
Barium ppm ASTM D5185m 90 0 <1 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 90 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 37 32 24 Sodium ppm ASTM D5185m <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 Δ 37 Δ 32 24 Sodium ppm ASTM D5185m >25 Δ 37 Δ 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 <tr< td=""><td>Boron</td><td>ppm</td><td>ASTM D5185m</td><td></td><td>0</td><td>0</td><td>0</td></tr<>	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1 0 <1 Magnesium ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 1 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 Δ37 Δ32 24 Sodium ppm ASTM D5185m >20 0 1 3 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Particles >4um ASTM D6304 >50.0 83.8 77.3 73.0	Barium	ppm	ASTM D5185m	90	0	<1	0
Magnesium ppm ASTM D5185m 90 0 0 15 Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 ▲ 37 ▲ 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Sodium ppm ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current	Molybdenum	ppm	ASTM D5185m		0	0	0
Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Zinc ppm ASTM D5185m 0 0 0 1 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >25 ▲ 37 ▲ 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 0 0 0007 Water % ASTM D6304 >0.05 0.008 0.007 0.007 0.007 Particles >4µm ASTM D7647 >1300 </td <td>Manganese</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <td><1</td> <td>0</td> <td><1</td>	Manganese	ppm	ASTM D5185m		<1	0	<1
Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 1 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 ▲ 37 ▲ 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >1300 919 △ 5623 △ 1378 Particles >6µm ASTM D7647 >80 75 △ 318 △ 112 Particles >21µm ASTM D7647 >20 20 △ 75 <t< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td>90</td><td>0</td><td>0</td><td>15</td></t<>	Magnesium	ppm	ASTM D5185m	90	0	0	15
Zinc ppm ASTM D5185m 0 0 1 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 ▲ 37 ▲ 32 24 Sodium ppm ASTM D5185m >20 0 1 3 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4µm ASTM D7647 >1300 919 △ 5623 △ 1378 Particles >21µm ASTM D7647 >80 75 △ 318 △ 112 Particles >21µm ASTM D7647 >4 1 3	Calcium	ppm	ASTM D5185m	2	0	0	0
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Silicon ppm ASTM D5185m >25 ▲ 37 ▲ 32 24 Sodium ppm ASTM D5185m <1 0 6 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >1300 919 ▲ 5623 ▲ 1378 Particles >21μm ASTM D7647 >80 75 ▲ 318 ▲ 112 Particles >21μm ASTM D7647 >20 20 ▲ 75 ▲ 27 Particles >38μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 △ 20/15 ▲ 18/14 FLUID DEGRADATION method limit/base current<	Zinc	ppm	ASTM D5185m		0	0	1
Sodium ppm ASTM D5185m <1 0 6 Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.005 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >1300 919 Δ 5623 Δ 1378 Particles >14μm ASTM D7647 >80 75 Δ 318 Δ 112 Particles >21μm ASTM D7647 >20 20 Δ 75 Δ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 Δ 20/15 Δ 18/14	CONTAMINANTS	i	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 1 3 Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >1300 919 Δ 5623 Δ 1378 Particles >14μm ASTM D7647 >80 75 Δ 318 Δ 112 Particles >21μm ASTM D7647 >20 20 Δ 75 Δ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 Δ 20/15 Δ 18/14 FLUID DEGRADATION method limit/base current history1 history1	Silicon	ppm	ASTM D5185m	>25	△ 37	▲ 32	24
Water % ASTM D6304 >0.05 0.008 0.007 0.007 ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history Particles >4μm ASTM D7647 >1300 919 Δ 5623 Δ 1378 Particles >14μm ASTM D7647 >80 75 Δ 318 Δ 112 Particles >21μm ASTM D7647 >20 20 Δ 75 Δ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 Δ 20/15 Δ 18/14 FLUID DEGRADATION method limit/base current history1 history1	Sodium	ppm	ASTM D5185m		<1	0	6
ppm Water ppm ASTM D6304 >500 83.8 77.3 73.0 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 3382 21859 4545 Particles >6μm ASTM D7647 >1300 919 ▲ 5623 ▲ 1378 Particles >14μm ASTM D7647 >80 75 ▲ 318 ▲ 112 Particles >21μm ASTM D7647 >20 20 ▲ 75 ▲ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 ▲ 20/15 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history	Potassium	ppm	ASTM D5185m	>20	0	1	3
FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 3382 21859 4545 Particles >6μm ASTM D7647 >1300 919 5623 1378 Particles >14μm ASTM D7647 >80 75 318 112 Particles >21μm ASTM D7647 >20 20 75 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 20/15 18/14 FLUID DEGRADATION method limit/base current history1 history	Water	%	ASTM D6304	>0.05	0.008	0.007	0.007
Particles >4μm ASTM D7647 3382 21859 4545 Particles >6μm ASTM D7647 >1300 919 Δ 5623 Δ 1378 Particles >14μm ASTM D7647 >80 75 Δ 318 Δ 112 Particles >21μm ASTM D7647 >20 20 Δ 75 Δ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 Δ 20/15 Δ 18/14 FLUID DEGRADATION method limit/base current history1 history	ppm Water	ppm	ASTM D6304	>500	83.8	77.3	73.0
Particles >6μm ASTM D7647 >1300 919 ▲ 5623 ▲ 1378 Particles >14μm ASTM D7647 >80 75 ▲ 318 ▲ 112 Particles >21μm ASTM D7647 >20 20 ▲ 75 ▲ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 ▲ 20/15 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >80 75 ▲ 318 ▲ 112 Particles >21μm ASTM D7647 >20 20 ▲ 75 ▲ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 20/15 18/14 FLUID DEGRADATION method limit/base current history1 history	•						
Particles >21μm ASTM D7647 >20 20 ▲ 75 ▲ 27 Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 20/15 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history				>1300			
Particles >38μm ASTM D7647 >4 1 3 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 △ 20/15 △ 18/14 FLUID DEGRADATION method limit/base current history history			ASTM D7647	>80	75	<u>▲</u> 318	<u></u> 112
Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >17/13 17/13 △ 20/15 △ 18/14 FLUID DEGRADATION method limit/base current history1 history	•			>20	20		<u>^</u> 27
Oil Cleanliness ISO 4406 (c) >17/13 17/13 ▲ 20/15 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history	Particles >38µm			>4			1
FLUID DEGRADATION method limit/base current history1 history			ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>17/13	17/13	2 0/15	▲ 18/14
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.38 0.48 0.42	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.38	0.48	0.42



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)

T: (574)594-9681