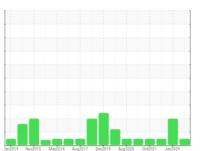


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

KAESER AS 31 1035528 (S/N 1018)

Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

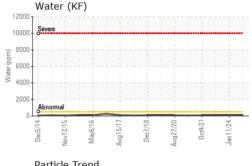
Fluid Condition

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

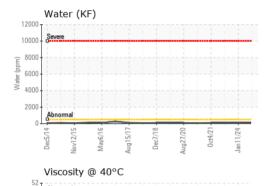
			nayeoro rageorr	DOLLOTO PROGLET		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA019440	KCPA008894	KCP53486
Sample Date		Client Info		18 Jun 2024	11 Jan 2024	20 Apr 2023
Machine Age	hrs	Client Info		157082	153415	146900
Oil Age	hrs	Client Info		6918	0	7203
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	5	9	12
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	<1	11	0
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		0	10	0
Zinc	ppm	ASTM D5185m		16	9	9
Sulfur	ppm	ASTM D5185m		19803	17413	20200
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		2	6	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.05	0.010	0.007	0.009
ppm Water	ppm	ASTM D6304	>500	103	71	94.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1583	14285	2462
Particles >6µm		ASTM D7647	>1300	497	△ 3539	572
Particles >14μm		ASTM D7647	>80	34	<u>275</u>	47
Particles >21µm		ASTM D7647	>20	5	<u>^</u> 92	17
Particles >38µm		ASTM D7647	>4	0	<u>^</u> 6	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12	<u>^</u> 21/19/15	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

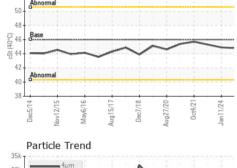


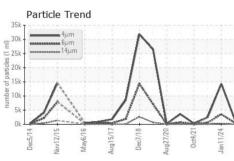
OIL ANALYSIS REPORT

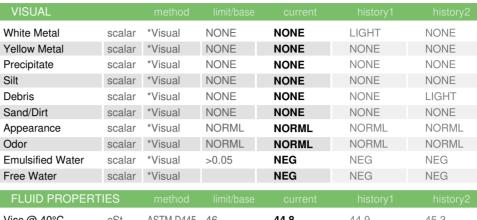


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25k - Sppped Jo				1.	1		
10k				I/Λ	1		Λ
5k				1	V		
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ā	2	Σ	Aug	ă	Aug	0	Jan



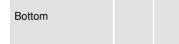






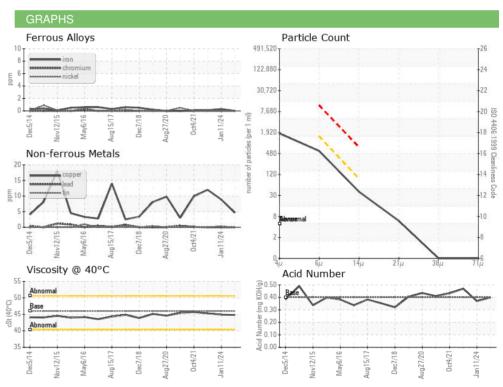
cSt Visc @ 40°C ASTM D445 46 44.8 44.9 45.3 SAMPLE IMAGES

Color













Certificate 12367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA019440 : 06221221

Received Tested Unique Number : 11099418

: 26 Jun 2024 : 27 Jun 2024

: 27 Jun 2024 - Don Baldridge Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

OLD DOMINION FREIGHTLINERS

3608 ROOY MESSER HWY WHITE PINO, TN

US 37890 Contact: KEVIN SCHULL

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F: