



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
S-460 [9155]
 Machine Id
KAESER 1531 - FERMILAB
 Component
Compressor

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	UDI06144373	---	---
Sample Date	Client Info	26 Mar 2024	---	---
Machine Age	hrs Client Info	5596	---	---
Oil Age	hrs Client Info	2260	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	<1	---	---
Chromium ppm ASTM D5185m	>10	<1	---	---
Nickel ppm ASTM D5185m	>3	<1	---	---
Titanium ppm ASTM D5185m	>3	<1	---	---
Silver ppm ASTM D5185m	>2	0	---	---
Aluminum ppm ASTM D5185m	>10	2	---	---
Lead ppm ASTM D5185m	>10	1	---	---
Copper ppm ASTM D5185m	>50	4	---	---
Tin ppm ASTM D5185m	>10	1	---	---
Vanadium ppm ASTM D5185m		<1	---	---
Cadmium ppm ASTM D5185m		<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	---	---
Barium ppm ASTM D5185m	90	30	---	---
Molybdenum ppm ASTM D5185m		<1	---	---
Manganese ppm ASTM D5185m		<1	---	---
Magnesium ppm ASTM D5185m	90	19	---	---
Calcium ppm ASTM D5185m	2	4	---	---
Phosphorus ppm ASTM D5185m		0	---	---
Zinc ppm ASTM D5185m		2	---	---
Sulfur ppm ASTM D5185m		21331	---	---

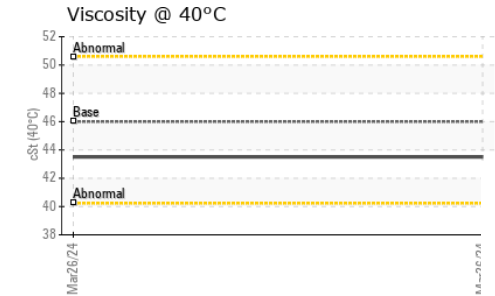
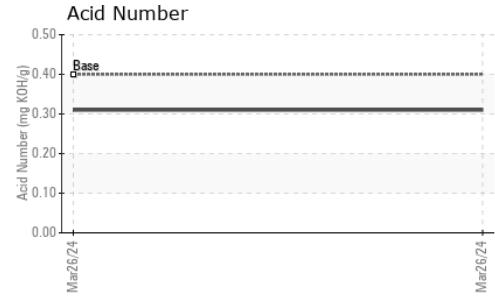
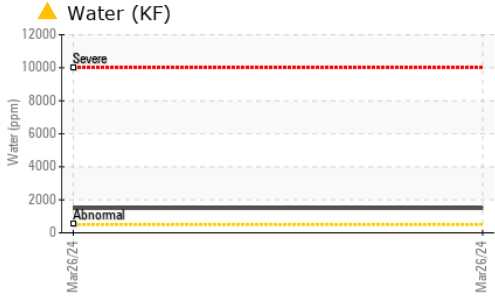
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>25	1	---	---
Sodium ppm ASTM D5185m		3	---	---
Potassium ppm ASTM D5185m	>20	1	---	---
Water % ASTM D6304	>0.05	▲ 0.149	---	---
ppm Water ppm ASTM D6304	>500	▲ 1490	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.4	0.31	---	---

OIL ANALYSIS REPORT



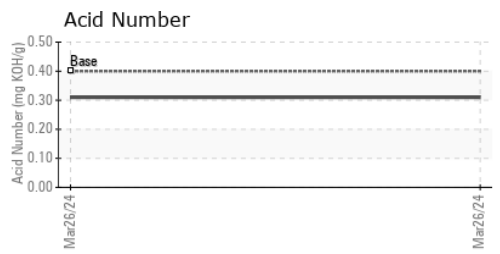
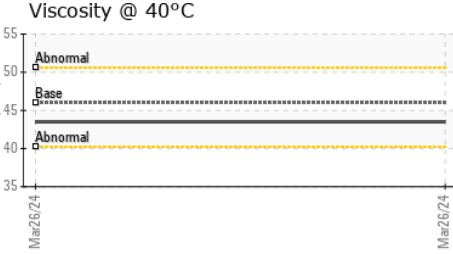
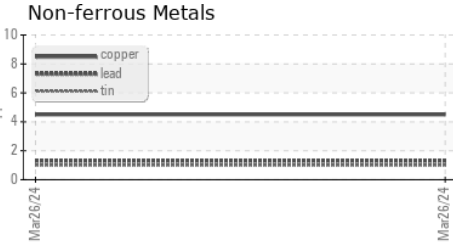
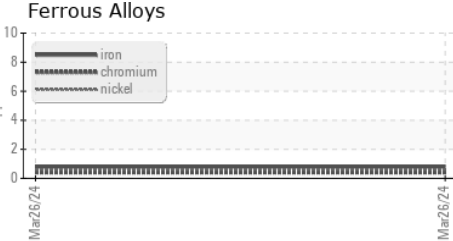
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	43.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UDI06144373 **Received** : 10 Apr 2024
Lab Number : 06144373 **Tested** : 11 Apr 2024
Unique Number : 10969181 **Diagnosed** : 12 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: KF)

DELTA INDUSTRIES - DOWNERS GROVE
 2201 CURTISS STREET
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 US 60515
 Contact: MICHAEL FERRIS

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)