

OIL ANALYSIS

Free Water

scalar *Visual

Area **MINING ME-304 KOMATSU PC490 A84**

Left Final Drive

KOMATSU TO-30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SIS REPC)RT					DIRT
A84012						
				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0938504		
Sample Date		Client Info		14 May 2024		
Machine Age	hrs	Client Info		12863		
Oil Age	hrs	Client Info		1073		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	378		
Chromium	ppm	ASTM D5185m	>10	5		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		6		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<mark> </mark> 44		
Lead	ppm	ASTM D5185m	>25	1		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6		
Barium	ppm	ASTM D5185m		11		
Molybdenum	ppm	ASTM D5185m		4		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m ASTM D5185m		18		
Calcium Phosphorus	ppm	ASTM D5185m		3984 853		
Zinc	ppm ppm	ASTM D5185m		1015		
Sulfur	ppm	ASTM D5185m		6646		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		▲ 215		
Sodium	ppm ppm	ASTM D5185m	215	1		
Potassium	ppm	ASTM D5185m	>20	2		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	MODER		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		

Sample Rating Trend

Contact/Location: Forrest Howell - COVTRO

NEG



OIL ANALYSIS REPORT

cSt

limit/base

limit/base

current

current

no image

92.9

method

ASTM D445

method

history1

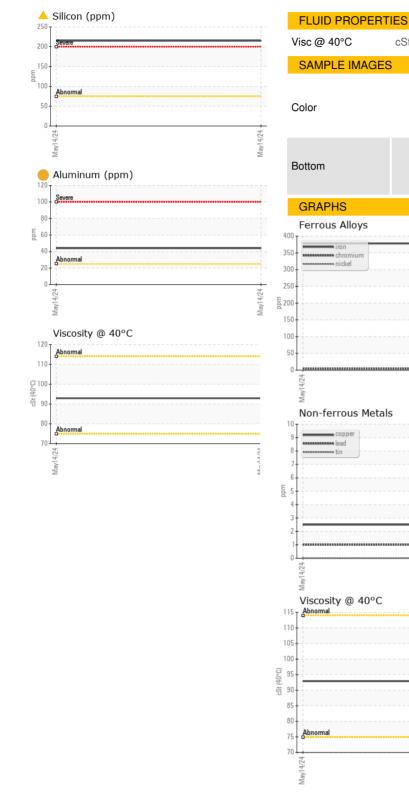
history1

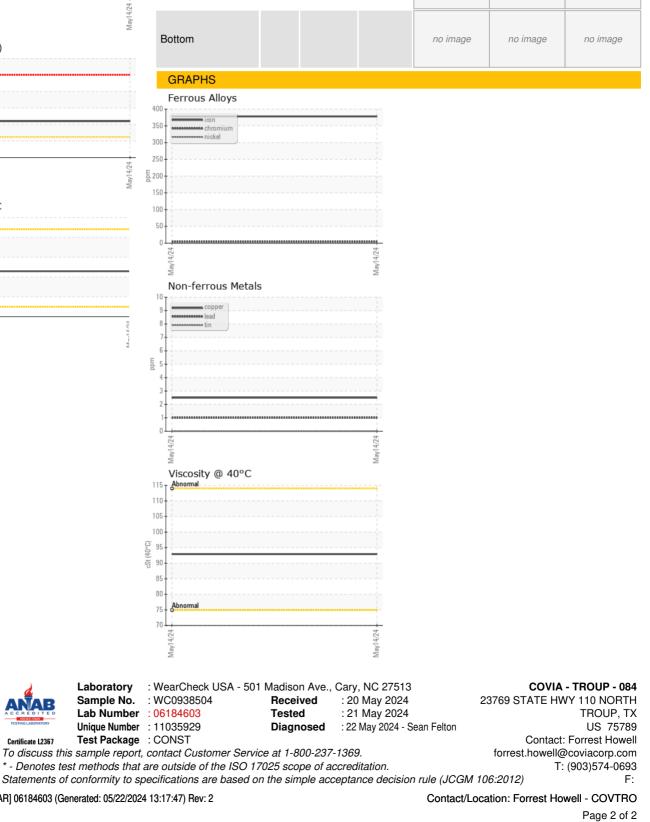
no image

history2

history2

no image





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